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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,519	11/27/2001	Jong Tak Kim	P-0283	8132
34610 7	590 09/28/2005		EXAMINER	
FLESHNER (& KIM, LLP		FERRIS, DE	ERRICK W
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER
CHARTLET, VII 20133			2663	

DATE MAILED: 09/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summans	09/993,519	KIM, JONG TAK			
Office Action Summary	Examiner	Art Unit			
	Derrick W. Ferris	2663			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	·				
1) Responsive to communication(s) filed on 27 No.	ovember 2001				
	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·	,				
Disposition of Claims					
4) Claim(s) <u>1-25</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4,6-12 and 14-25</u> is/are rejected.					
7)⊠ Claim(s) <u>5 and 13</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	· •				
10)☑ The drawing(s) filed on <u>27 November 2001</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. ☐ Copies of the certified copies of the prior		ed in this National Stage			
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* See the attached detailed Office action for a list of the certified copies not received.					
	•				
Attachment(s)					
1) 🔯 Notice of References Cited (PTO-892) 4) 🗌 Interview Summary (PTO-413)					
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)			

Art Unit: 2663

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 6-12, 14-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,928,482 B1 to *Ben Nun et al.* ("Ben Nun") in view of "Overview and Capacity of the GPRS (General Packet Radio Service) to Ferrer et al. ("Ferrer").

As such to **claim 1**, *Ben Nun* discloses receiving a packet at a central control unit 205, see e.g., figure 2. The central control unit compares loads supported by a plurality of packet processors, see e.g., column 13, lines 15-40 and also column 13, lines 40-60 with respect to the processing of a flow (i.e., call) and the processing of a particular type of flow (i.e., note that load balancing is also performed within a flow). The plurality of packet processors are shown e.g., as packet processors 1-N in figure 2. Assigning the packet to a first packet processor having a first load that is no larger than a second load supported by any other of the plurality of packet processors is taught e.g., at column 12, lines 16-37 and in particular at column 13, lines 15-40 since the processor with the smallest load is selected.

Ben Nun may be silent or deficient to the further limitation of a call connection.

In particular, Ben Nun teaches load balancing for a packet network.

Art Unit: 2663

Ferrer teaches the further recited limitation above in combination at e.g., the right-hand column on page 106 since Ferrer teaches that WLL uses packets (i.e., a call connection).

The proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify *Ben Nun* by clarifying that the call connections are packet flows since the packets are routed by address.

As such, examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, the motivation for modifying the reference or to combine the reference teachings would be to transport packets over a wireless network. In particular, *Ben Nun* cures the above-cited deficiency by providing a motivation found at e.g., the right-hand column on page 106 since packets are transported in a GSM network and a GSM network is a candidate for WLL. Thus the references teach the above claim limitation(s).

As to **claim 2**, with respect to hold time, see e.g., column 15, line 46 – column 16, line 49 where the load time is determined over a time period which is accumulated for each processor. Since the least loaded processor is selected, the load times are further compared.

As to **claim 3**, a call assignment processor is the central control unit 205. The load values are further transmitted over a load information bus to the classifier which is a part of call control unit 205, see e.g., figure 2. The regular interval is the period of time that the load information is obtained, see e.g., column 16, lines 1-49.

Art Unit: 2663

As to claim 4, see e.g., column 15, line 46 – column 16, line 49 where the idle transmission time is transmitted to the central control unit for a predetermined time period. Thus implicitly taught from the above statement is a time difference since if during that time period the processor is not idle then the processor is by definition busy.

As to claim 6, the load time is based on a rate, see e.g., column 6, lines 1-49.

As to claim 7, packets are transmitted over a bearer channel where a bearer channel contains data.

As to claim 8, the call connections are assigned sequentially when the loads are equal, see e.g., column 13, lines 40-60.

As to claim 9, see the combined rejections for claims 1 and claim 6.

As to claim 10, see similar rejection to claim 3.

As to claim 11, see similar rejection to claim 4.

As to claim 12, see similar rejection to claim 6.

As to **claim 14**, see similar rejection to claim 7.

As to claim 15, see similar rejection to claim 8.

As to claims 16-18, see similar rejection to claim 1.

As to claim 19, see similar rejection to claim 6.

As to claim 20, see similar rejection to claim 1. Note that the terminals are the source nodes as taught by *Ben Nun*.

As to claims 21-23, see similar rejection to claim 1.

As to claim 24, see similar rejection to claim 6.

Art Unit: 2663

As to **claim 25**, see similar rejection to claim 1. Note that the terminals are the source nodes as taught by *Ben Nun* and that WLL, used in combination, is a wireless connection. Also the motivation is the same as mentioned in claim 1.

Allowable Subject Matter

3. Claims 5 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derrick W. Ferris whose telephone number is (571) 272-3123. The examiner can normally be reached on M-F 9 A.M. - 4:30 P.M. E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derrick W. Ferris Examiner Art Unit 2663

Page 6

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